

MATERIAL SAFETY DATA SHEET

SECTION 1--PRODUCT IDENTIFICATION AND USE				
PRODUCT IDENTIFIER > CARBOL FUCHSIN COUNTERSTAIN (METHYLENE BLUE)			CATALOGUE NUMBER: SC27	
MANUFACTURER'S NAME Dalynn Biologicals Inc.		SUPPLIER'S NAME Dalynn Biologicals Inc.		
STREET ADDRESS 3253 - 34 Avenue N.E.		STREET ADDRESS 3253 - 34 Avenue N.E.		
CITY Calgary	PROVINCE Alberta	CITY Calgary	PROVINCE Alberta	
POSTAL CODE T1Y 6X2	CHEMICAL EMERGENCY ONLY: 1-613-996-6666	POSTAL CODE T1Y 6X2	CHEMICAL EMERGENCY ONLY: 1-613-996-6666	
SECTION 2--HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC ₅₀ OF INGREDIENT (SPECIFY INGREDIENT)
Methylene Blue	0.3	7220-79-3	Oral - Hmn 1 400 mg/kg	Not Available
SECTION 3--PHYSICAL DATA				
PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Dark, greenish-blue liquid, with no odor			ODOUR THRESHOLD (ppm) Not available
VAPOUR PRESSURE (mmHg) Not available	VAPOUR DENSITY (AIR=1) Not available	EVAPORATION RATE Not available	BOILING POINT (°C) -100	FREEZING POINT (°C) Not available
pH Not available	SPECIFIC GRAVITY Not available	COEFF. WATER/OIL DIST. Not available		
SECTION 4--FIRE AND EXPLOSION DATA				
FLAMMABLE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? > Non-flammable due to the high content of water in this product				
MEANS OF EXTINCTION Water spray, carbon dioxide, dry chemical powder, appropriate foam.				
FLASHPOINT (°C) AND METHOD Not available		UPPER FLAMMABLE LIMIT (% BY VOLUME) Not available	LOWER FLAMMABLE LIMIT (% BY VOLUME) Not available	
AUTOIGNITION TEMPERATURE (°C) Not available		HAZARDOUS COMBUSTION PRODUCTS Carbon monoxide, carbon dioxide		
EXPLOSION DATA >	SENSITIVITY TO IMPACT No		SENSITIVITY TO STATIC DISCHARGE No	
SECTION 5--REACTIVITY DATA				
CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, UNDER WHICH CONDITIONS? >				
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF SO, WHICH ONES? > Strong oxidizing agents, alkali, dichromates, alkali iodides, strong reducing agents				
REACTIVITY, AND UNDER WHAT CONDITIONS Not available				
HAZARDOUS DECOMPOSITION PRODUCTS Toxic fumes of carbon monoxide, carbon dioxides, oxides of sulfur and nitrogen				

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SECTION 6—TOXICOLOGICAL PROPERTIES			
ROUTE OF ENTRY SKIN CONTACT [X] SKIN ABSORPTION [X] EYE CONTACT [X] INHALATION [X] INGESTION [X]			
EFFECTS OF ACUTE EXPOSURE TO PRODUCT Inhalation: No adverse health effects expected from inhalation. May cause a short period of rapid or difficult breathing. Ingestion: A burning sensation of the mouth may be noted following ingestion of methylene blue. May cause nausea, vomiting, diarrhea, and gastritis. Large doses may cause abdominal and chest pain, headache, profuse sweating, mental confusion, painful micturation, and methemoglobinemia. Skin Contact: Not expected to be a health hazard from skin exposure. Methylene blue may color the skin a bluish color. May cause photosensitization. Eye Contact: No adverse effects expected. May cause mechanical irritation.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT To the best of our knowledge the chronic toxicological effects of this product have not been thoroughly investigated. Mutagenic effects have been reported in some animal tests so avoid direct contact wherever possible.			
EXPOSURE LIMITS Not available	IRRITANCY OF PRODUCT Yes	SENSITISATION TO PRODUCT Not available	CARCINOGENICITY Not available
TERATOGENICITY Not available	REPRODUCTIVE TOXICITY Not available	MUTAGENICITY Not available	SYNERGISTIC PRODUCTS Not available
SECTION 7—PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT: Wear appropriate protective clothing: Safety glasses, chemical resistant gloves, and laboratory coat.			
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS) Local exhaust or chemical fume hood			
LEAK AND SPILL PROCEDURE Wearing chemical resistant gloves, soak up with an absorbent or paper towels and containerize appropriately. Ventilate area and wash spill site after material has been containerized. Container maybe disposed of with regular waste.			
WASTE DISPOSAL According to local, provincial and federal regulations			
HANDLING PROCEDURES AND EQUIPMENT Avoid direct contact. Wash thoroughly after handling.			
STORAGE REQUIREMENTS Store away from direct light.			
SPECIAL SHIPPING INFORMATION None.			
SECTION 8—FIRST AID MEASURES			
Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty. Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops. Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists. Seek medical attention			
SECTION 9—PREPARATION OF MSDS			
PREPARED BY (GROUP, DEPT, ETC.) Technical Department Dalynn Biologicals Inc.	PHONE NUMBER (403) 291-0067	DATE 2014 January	